

FORM PTO-1390 (Modified)
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

TRG-303

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

10/069993INTERNATIONAL APPLICATION NO.
PCT/AT00/00235INTERNATIONAL FILING DATE
30 AUG 2000PRIORITY DATE CLAIMED
01 SEP 1999TITLE OF INVENTION
BRUSH

APPLICANT(S) FOR DO/EO/US

Diethard TRENZ;
Markus ENZFELLNER

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto. *(TRANSLATION Certified)*
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

- Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☒ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

Formal Drawings (4 pages - 7 figures); PCT Request; Power of Attorney (with Declaration); Forms PCT/1B/301, PCT/1B/304, PCT/1B/308 and PCT/1B/332; and a Copy of the Correspondence sent to The International Bureau of WIPO on Feb 4, 2002 with accompanying Assignment and General Power of Attorney requesting to change the applicant (except in US) from TRENZ, Diethard et al (the inventors) to Hagleitner Hygiene International GmbH.

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

10/069993

INTERNATIONAL APPLICATION NO.

PCT/AT00/00235

ATTORNEY'S DOCKET NUMBER

TRG-303

24. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1040.00
- ☒ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$890.00
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$740.00
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$710.00
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =**\$890.00**Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).**\$0.00**

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	16 - 20 =	0	x \$18.00
Independent claims	1 - 3 =	0	x \$84.00

\$0.00**\$0.00**Multiple Dependent Claims (check if applicable). ☐**\$0.00****TOTAL OF ABOVE CALCULATIONS =****\$890.00**☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.**\$0.00****SUBTOTAL =****\$890.00**Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).**\$0.00****TOTAL NATIONAL FEE =****\$890.00**Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). ☒**\$40.00****TOTAL FEES ENCLOSED =****\$930.00**

Amount to be:

\$

charged

\$

- a. ☒ A check in the amount of **\$930.00** to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **12-2147**. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Anthony M. Lorusso
Lorusso & Loud
440 Commercial Street
Boston, MA 02109

Phone: 617-227-0700

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SIGNATURE

Anthony M. Lorusso

NAME

25,059

REGISTRATION NUMBER

March 1, 2002

DATE

IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

In re Application of:
TRENZ et al.

Atty. Docket
No. TRG-303

Title: BRUSH

Serial No.: N/A

Art Unit: N/A

Filed: March 1, 2002

Examiner: N/A

Box PCT
Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to examination of the captioned application and prior to calculation of the fees, please preliminarily amend the application as follows pursuant to 37 CFR § 1.115:

In the specification:

At page 1, in the center of line 2, please insert the heading "BACKGROUND OF THE INVENTION".

At page 1, in the center of line 17, please insert the heading "SUMMARY OF THE INVENTION".

At page 3, in the center of line 7, please insert the heading "BRIEF DESCRIPTION OF THE DRAWING".

At page 3, in the center of line 17, please insert the heading "DETAILED DESCRIPTION OF THE INVENTION".

In the Claims:

Please cancel claims 1 to 15 without prejudice and add claims 16 to 31:

16. A brush, in particular, a toilet brush; with a brush head and a brush head holder, with the brush head mountable in detachable, in particular in lockable, fashion, wherein the brush head can be pushed onto the brush head holder under friction closure.
17. The brush according to claim 16, wherein the brush head is a disposable one-way brush head.
18. The brush according to claims 16, wherein the brush head holder features an ejection mechanism for the brush head.
19. The brush according to claim 18, wherein the ejection mechanism comprises a sleeve movable along a handle, the sleeve preferably being movable by means of a push button.

20. The brush according to claim 19, wherein the push button features an extension that is directly or indirectly connected to the ejection mechanism.
21. The brush according to claim 19, wherein the push button is connected directly or indirectly with the ejection mechanism via a rod-shaped element, preferably a wire.
22. The brush according to claim 16, wherein the brush head holder features a locking mechanism.
23. The brush according to claim 22, wherein the locking mechanism comprises at least an extendable ball or, respectively, an extendable cog.
24. The brush according to claim 19, wherein the handle features a bend.
25. The brush according to claim 16, wherein the brush head comprises bristles made of a degradable material, in particular paper.
26. The brush according to claim 25, wherein the bristles are arranged on a mounting element, in particular a receiving sleeve made of degradable material, in particular paper.

27. The brush according to claim 26, wherein the receiving sleeve is designed as a hollow cylinder to be stuck onto a cylindrical section of the brush head holder.
28. The brush according to claim 27, wherein a protective sleeve surrounding the bristles is provided.
29. The brush according to claim 28, wherein the brush head is made of water-soluble plastic.
30. The brush according to claim 29, wherein the brush head is impregnated with at least one agent, preferably in gel form
31. The brush according to claim 30, wherein the agent is selected from the group consisting of a cleaning agent, a disinfectant agent and a scent agent.

In the Abstract:

Please add the following abstract:

The invention relates to a brush, especially a toilet brush, comprising a brush head and a brush head holder, wherein the brush head can be detachably mounted on the brush head holder, especially in such a way that the two interlock. According to the invention, the brush head can be slid onto the brush head holder with a friction fit. It is therefore possible to exchange a used brush head for a new, germ-free replacement. This not only avoids the unattractive appearance that conventional brushes acquire after repeated use, but also prevents health risks to the user.

REMARKS

By this Preliminary Amendment, Applicants have added titles to each section of the present application along with a complete abstract. Additionally, Applicants have cancelled claims 1-15 and added new claims 16-31; therefore, claims 16-31 are now pending in the application. In drafting claims 16-31, which directly coincide with cancelled claims 1-15, Applicants removed all multiple dependencies and reference numerals and made minor changes to the claim language in an effort to better conform said claims, which were originally written in a European format, to customary U.S. practice. Furthermore, cancelled claim 15 was separated into to two claims (claims 30 and 31) to remove the indefinite language residing therein. Finally, Applicants respectfully submit that by this amendment no new matter has been added to the application.

FEE STATEMENT

A fee of \$930.00 is submitted herewith. It is believed that no additional fees are due at the present time. However, in the event of any fee deficiency or overpayment, authorization is hereby granted to charge such deficiency or credit such overpayment to deposit account #12-2147.

Respectfully Submitted
LORUSSO & LOUD



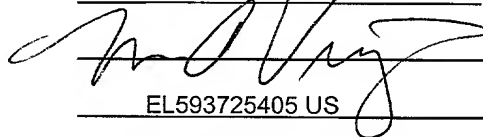
Anthony M. Lorusso
Reg. No. 25,059

Dated: March 1, 2002
440 Commercial Street
Boston, MA 02109
Tel.: (617) 227-0700
Fax.: (617) 723-4609

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

I hereby certify that this Preliminary Amendment along with any attachments referred to therein, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington DC 20231, on March 1, 2002.

Marc A. Vivenzio



EL593725405 US

"Express Mail" Label Number

BRUSH

The invention concerns a brush, in particular a toilet brush, with a brush head and a brush head holder, with the brush being mountable in detachable fashion on the brush head holder, preferably
5 in a way so that it can be locked in place.

Traditional brushes, in particular toilet brushes, pose a hygienic problem since the brush head is a good nutritive medium for bacteria and fungi. In addition to the unattractive appearance of the brush after repeated use, this will lead to a health hazard for the user.

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From DE 33 20 586 A1, a brush has been known that features a dual brush head, part of which is attached to the handle of the toilet brush, while the other part can be unscrewed and replaced. This design is based on the idea that the brush wears off more at the top part than at the rear end. But since only part of the brush head is always exchanged, the problem of bacteria formation
15 persists. Sterility can not be achieved by this means. Also, in order to unscrew the front part of the brush, it must always be touched by hand, which is most unhygienic.

The invention at hand solves the aforementioned problems by providing a brush of the type cited at the beginning in which the brush head can be pushed onto the brush head holder by way of
20 friction closure. This makes it possible to exchange the entire used brush head for a new sterile one. The used brush head does not need to be touched by hand, as will be shown below.

A particularly preferred model of the invention is characterized by the fact that the brush head is a disposable one-way brush head. This makes it possible in the case of toilet brushes to dispose of
25 the brush head via the toilet without coming into direct contact with it.

In order to prevent the user from having to come into direct contact with the brush head, it is useful if the brush head holder features an ejection mechanism.

In a particularly advantageous model, the ejection mechanism of the brush consists of a sleeve sliding on a handle, with the sleeve preferably being movable by way of a push button. This eliminates the necessity of touching the brush head by hand.

Preferably, the push button will feature an extension that is directly or indirectly connected with the ejection mechanism. Said extension should be flexible so it can be used with a bent handle as well. Alternatively, in lieu of the extension, a wire can be connected directly or indirectly with the ejection mechanism. The bending of the handle allows hard-to-reach areas of toilet bowls and the like to be cleaned as well.

In order to assure a fixed connection between the brush head and the brush head holder, the brush head holder can be equipped with a locking mechanism. The latter comprises at least an extendable ball or an extendable cog.

A brush head to be utilized in the invention contains, for the purpose at hand, bristles made of degradable material, in particular paper. The bristles can be arranged on a mounting element, in particular a receiving sleeve made of degradable material, especially paper. A preferred model of the brush head is characterized by the fact that the receiving sleeve is designed as a hollow cylinder in order to be stuck onto a cylindrical section of the brush head holder.

A protective sleeve surrounding the bristles is provided in order to keep the bristles together prior to their first-time use.

A particularly advantageous manufacturing process by jet molding is made possible with regard to the brush head if the brush head is made of water-soluble plastic. The plastic material may be made from replenishable raw materials.

- 5 To achieve better cleaning, disinfection, and hygienic odors, the brush head may be impregnated with a cleaning and/or disinfection and/or scent agent, preferably in gel form.

Now, the invention will be described in detail, using non-restricting sample models and making reference to the drawing. In the drawings, parts that are identical or identical in function are indicated by the same reference symbols. Figure 1 shows a brush head according to the invention
10 schematically in a longitudinal section and in a horizontal projection. Figures 2 and 3 show two models of a brush head holder of the invention in a longitudinal section. Figures 4 and 5 show an additional model of a brush head holder according to the invention in a lateral section and a longitudinal section; Figure 6, again, shows a different brush head holder according to the
15 invention in a longitudinal section, and Figure 7 shows in four models the utilization of the brush head holder together with a brush head dispenser.

First, reference is made to Figures 1 through 3. The brush according to the invention, shown as executed as a toilet brush, consists of a brush head 10, as shown in Figure 1, and a brush head
20 holder as indicated in Figure 2 in general by the number 20 and in Figure 3 in general by the number 30. The brush head is executed as a one-way brush head and consists of a sleeve 2 that precisely fits the brush head holder 20, 30. If necessary, the sleeve 2 can be supplemented by an extension tube made of cellulose or the like in order to be able to effectively clean hard-to-reach places in toilet bowls, etc. Connected to the sleeve 2 are several rolled-up paper strips or similar
25 that serve as bristles and that are held together by a protective cover 3. Prior to using the one-way brush, the protective cover 3 must be removed, allowing the bristles 1 of the brush head 10 to

unfold. After use, the brush head can be thrown off by means of a push button 4 on the brush head holder 20, 30 and into the toilet bowl, and then disposed of. The brush heads of the invention consist of a well-degradable material, in particular a material that is easily soluble in water, e.g. one similar to toilet paper. Preferably, the brush heads are made of cellulose or a water-soluble plastic that can be made from replenishable raw materials. Such water-soluble plastic can be processed like normal plastic in jet moldings, but it has the advantage that the brush heads made of this material can also be disposed off via the toilet due to its water solubility. Furthermore, the brush head can be impregnated with scent, cleaning and/or disinfection agents, with these agents preferably being used in gel form.

The brush head holder 20, 30 consists of a handle 5 made of metal, PVC or similar that the brush heads are stuck onto. The brush head holder is equipped with a mechanism 6 that makes it possible to slide off the brush heads by means of the push button 4 on the handle. The brush head holder 30 according to Figure 3 furthermore is equipped with a ball mechanism 7 that firmly locks the brush head in position after it has been stuck on. Figure 2 shows a simpler solution provided for manual use by hand [sic]. However, the model according to Figure 3 assures a better hold of the brush head on the brush holder and is intended for use with a one-way brush head dispenser.

Such a one-way brush head dispenser consists, e.g., of a storage container with several brush heads that drops in front of a removal opening by force of gravity or a spring. Several small knives may be arranged around the removal opening that tear open the protective cover of the brush head when it is pulled out of the removal opening. The brush head holder is stuck through the removal opening into the brush head and automatically locked in place by means of the ball mechanism. When the one-way brush is pulled out, the protective cover of the brush head is torn open and the one-way toilet brush is instantly ready to use. The process is shown in Figure 7 in

the sequence a) through d). In step a), a magazine for the storage container is first mounted on the wall with screws or, alternatively, with adhesive tape. The magazine has a front wall that can be folded out and whose lower end has an opening for the insertion of the brush head holder. In step b), the storage container is placed into the magazine, and it can be seen that the brush sits in a holder on the right side of the magazine. In step c), the brush head holder is stuck into a brush head, and the brush is thus ready to use. In step d), the cleaning process can now be carried out.

Figure 4 shows an additional model of a brush head holder 40 according to the invention in a side view. It differs from the models described above in that the handle 5' is equipped with a bend α of approximately 155°. This makes it possible to clean hard-to-reach places in toilet bowls as well. Figure 5 shows a longitudinal section through the brush head holder of Figure 4 that, for space reasons, was separated into two segments. From Figure 5, one can recognize additional differences of this model of the brush head holder vis-à-vis those of Figures 2 and 3. The brush head holder 40 features a movable connection element 11 split lengthwise at the end of the brush head side in the interior of the handle 5' that interlocks with a flexible (necessary due to the bend) extension 4a of the push button 4 and which transfers translation motions of the push button 4 to the sleeve-shaped ejection mechanism 6 via a bolt 9 that can slide in oblong slots 5a of the handle 5'. The ejection mechanism 6 features a flange 6a that serves as a stopper for the protective cover of the brush head. The protective paper cover is pushed back to said stopper. The spring 12 resets the push button 4 to its starting position. In addition, a cap 8 that can be forced on by pressure closes the tube-shaped handle 5' off.

Another model of a brush head holder 60 according to the invention is shown in Figure 6. It differs from the design models of Figures 4 and 5 mainly in that the handle is composed of several parts, namely a grip part 5b, a cone part 5c, a connection tube 5d, another connection part

5e and a head part 5f that features the oblong slots 5a for the bolt 9 which traverses the connection part 11'. The ejection mechanism 6 is pushed over the head part 5f. The parts of the handle can be formed of plastic, preferably however of stainless steel, and are cemented together. In contrast with the previous model, the push button 4 does not feature an extension, but is
5 connected, by means of a stud screw 13, to a relative stiff stainless-steel wire 14 whose other end locks into the connection part 11'. The wire 14 transmits the translation motions of the push button 4 to the connection part 11'. The spring 12 again serves to reset the push button 4 to its starting position. The connection tube 5d of the handle is bent prior to the assembly in order to create the aforementioned bend.

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Patent Claims:

1. Brush, in particular, a toilet brush; with a brush head and a brush head holder, with the brush head (10) mountable in detachable, in particular in lockable, fashion, characterized by the fact that the brush head (10) can be pushed onto the brush head holder (20, 30, 40, 60) under friction closure.

2. Brush according to claim 1, characterized by the fact that the brush head (10) is a disposable one-way brush head.

3. Brush according to claims 1 or 2, characterized by the fact that the brush head holder (20, 30, 40, 60) features an ejection mechanism (6) for the brush head (10).

4. Brush according to claim 3, characterized by the fact that the ejection mechanism (6) comprises a sleeve movable along a handle (5.5'), the sleeve preferably being movable by means of a push button (4).

5. Brush head according to claim 4, characterized by the fact that the push button (4) features an extension (4a) that is directly or indirectly connected to the ejection mechanism.

6. Brush head according to claim 4, characterized by the fact that the push button (4) is connected directly or indirectly with the ejection mechanism (6) via a rod-shaped element, preferably a wire (14).

7. Brush according to one of the preceding claims, characterized by the fact that the brush head holder features a locking mechanism (at 7).

8. Brush according to claim 7, characterized by the fact that the locking mechanism comprises at least an extendable ball (7) or, respectively, an extendable cog.

9. Brush according to one of the preceding claims, characterized by the fact that the handle

5 (5') features a bend (α).

10. Brush head to be utilized in a brush according to one of claims 1 through 9, characterized by the fact that the brush head (10) comprises bristles (1) made of a degradable material, in particular paper.

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11. Brush head according to claim 10, characterized by the fact that the bristles (1) are arranged on a mounting element, in particular a receiving sleeve (2) made of degradable material, in particular paper.

15 12. Brush head according to claim 11, characterized by the fact that the receiving sleeve (2) is designed as a hollow cylinder to be stuck onto a cylindrical section of the brush head holder (20, 30, 40, 60).

20 13. Brush head according to claims 10 through 12, characterized by the fact that a protective sleeve (3) surrounding the bristles (1) is provided.

14. Brush head according to one of claims 10 through 13, characterized by the fact that it is made of water-soluble plastic.

25 15. Brush head according to one of claims 10 through 14, characterized by the fact that it is impregnated with a cleaning and/or disinfectant and/or scent agent, preferably in gel form.

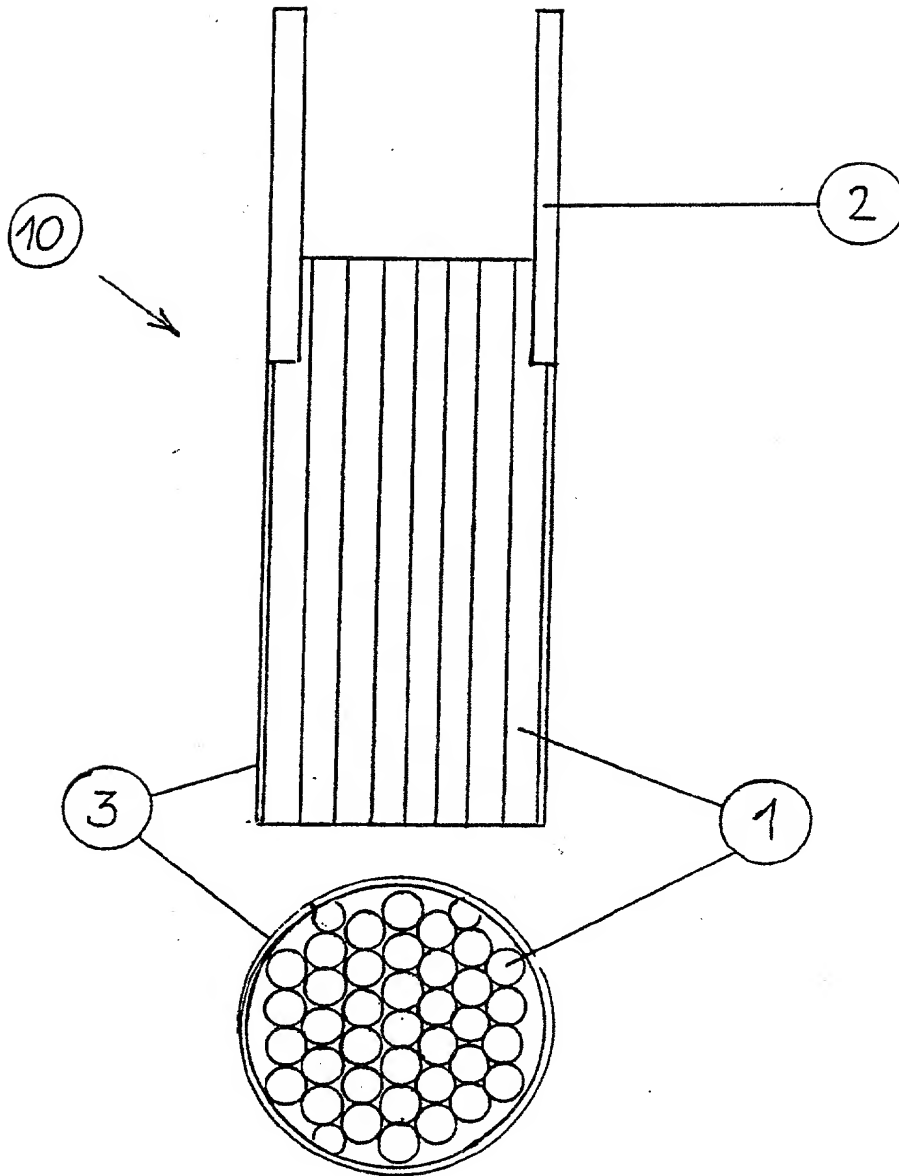


Fig. 1

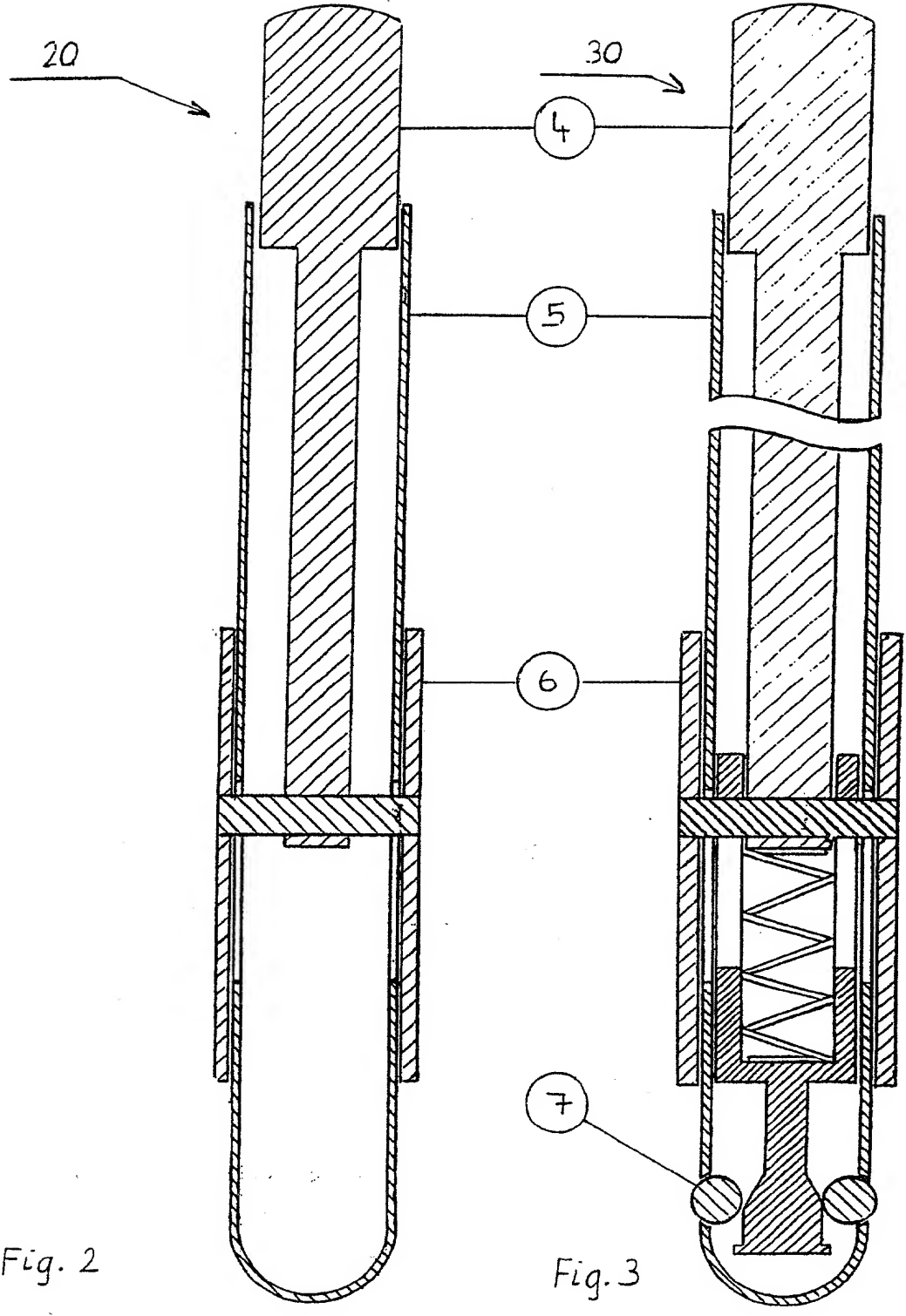
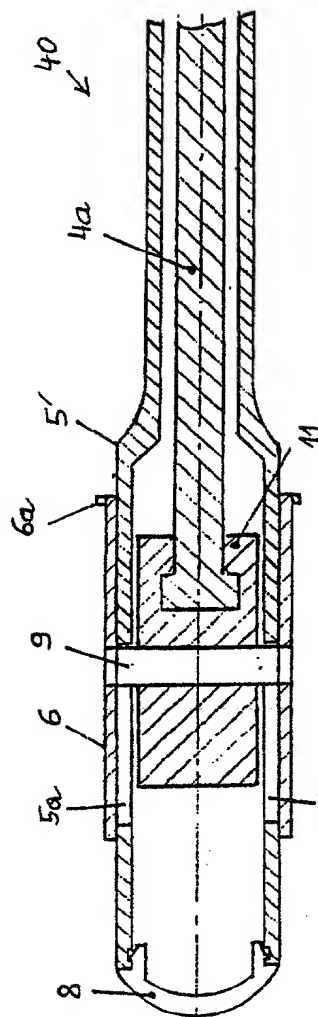
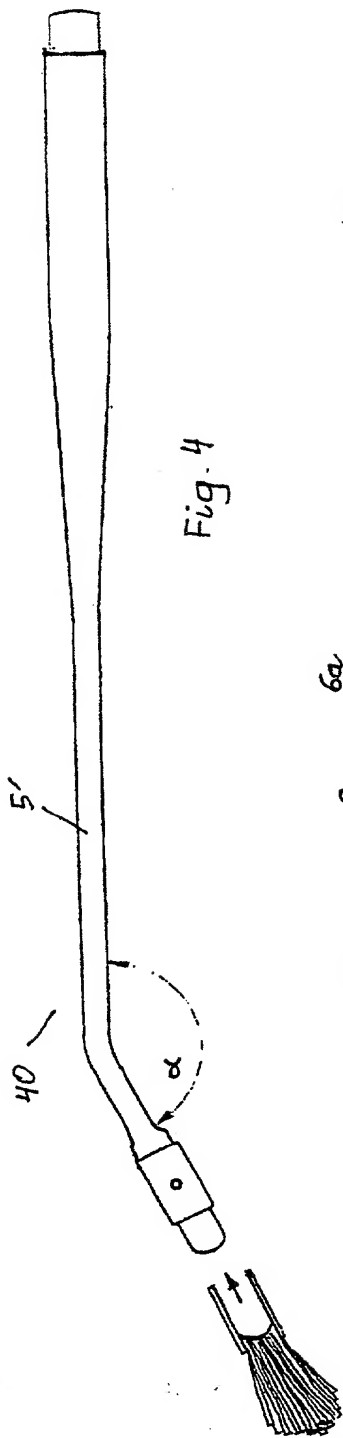


Fig. 2

Fig. 3



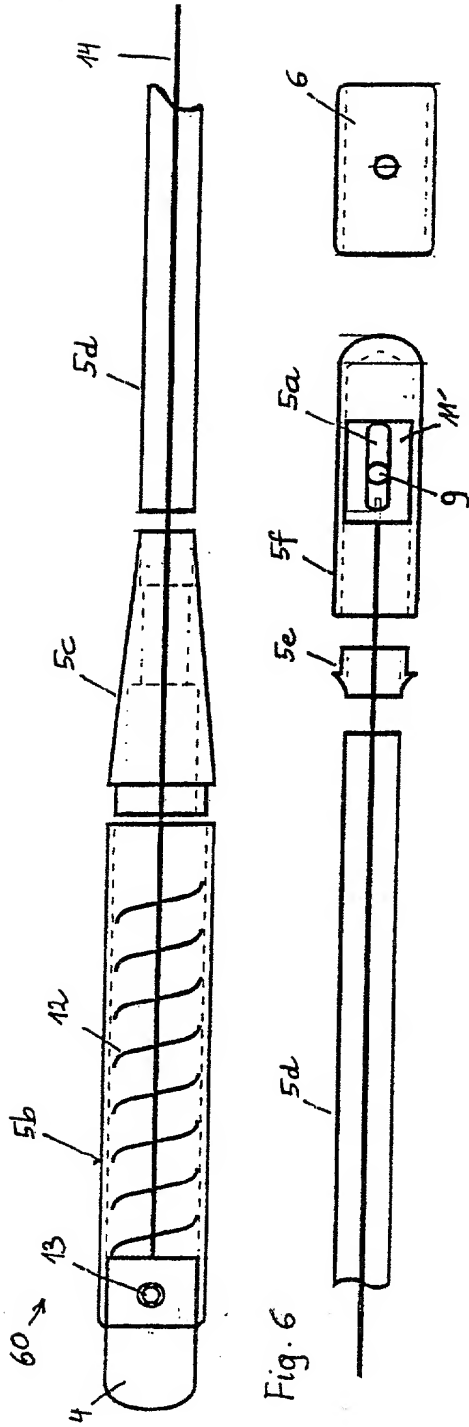


Fig. 6

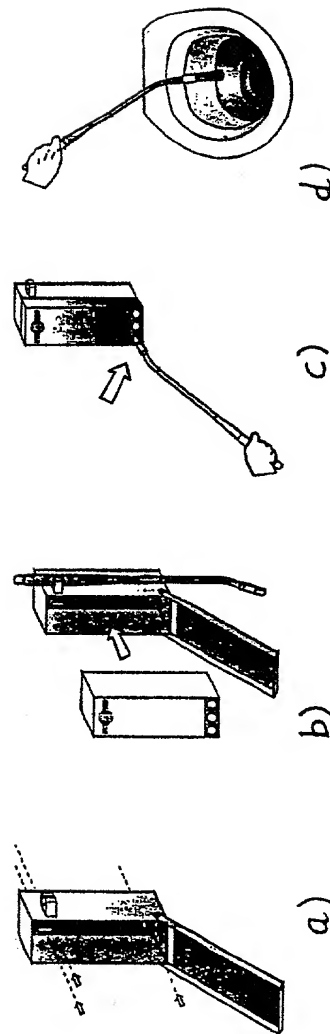


Fig. 7

Docket No.

TR6-303

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

BRUSH

the specification of which

(check one)

- ☐ is attached hereto.
- ☐ was filed on _____ as United States Application No. or PCT International Application Number _____ and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

A 1507/99	Austria	1 Sept. 1999	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112. I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

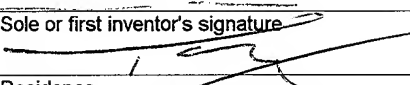
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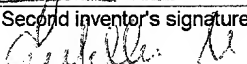
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